MARCHANT

UNIVERSAL TABULATOR

SD MODELS

SERVICE INSTRUCTION BOOK

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PREFACE

1. In the SD models the direction of Tab. shifts is controlled by the Tab. Direction Control Lever. When the Tab. Direction Control Lever is toward the front of the machine Tab. shifts will be to the right, if the lever is toward the rear of the machine Tab. shifts will be to the left.

2. The depression of the No. 1 Columnar Tab. Key causes the Carriage to shift to the extreme left position and the No. 10 Key (or No. 8 on 8 Bank machines) causes the Carriage to shift to the extreme right regardless of any latched intermediate Tab. Key or the position of the Tab. Direction Control Lever.

3. Mechanisms necessary for tabulation on the SD models are the same as in the FA (pages 880 to 896) except as described in the following paragraphs.

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4. The Tab. Direction Control Lever, 87747 (Fig. 1073) is mounted on the extreme left key section (No. 8 or No. 10) so that camming surface "A" rests over a lug on the No. 10 (or No. 8) Tab. Key Assembly, 87980 (87978). When the Tab. Direction Control Lever is moved toward the front of the machine surface "A" cams key 87980 (87978) downward far enough to rock 78068A counter-clockwise and shaft 78057, through 7481 spring and 78055A clockwise. As shaft 78057 rotates clockwise link 78061* is pushed rearward by the stud on 78059* positioning 77371* over ear "B" of 77460* for a right carriage shift. The Tab. Direction Control Lever should cam key 87980 down only far enough to position 78068A etc. for a right shift, not far enough to rock bail 78110 away from the tripper or to initiate a Tab. operation through bail 78165.

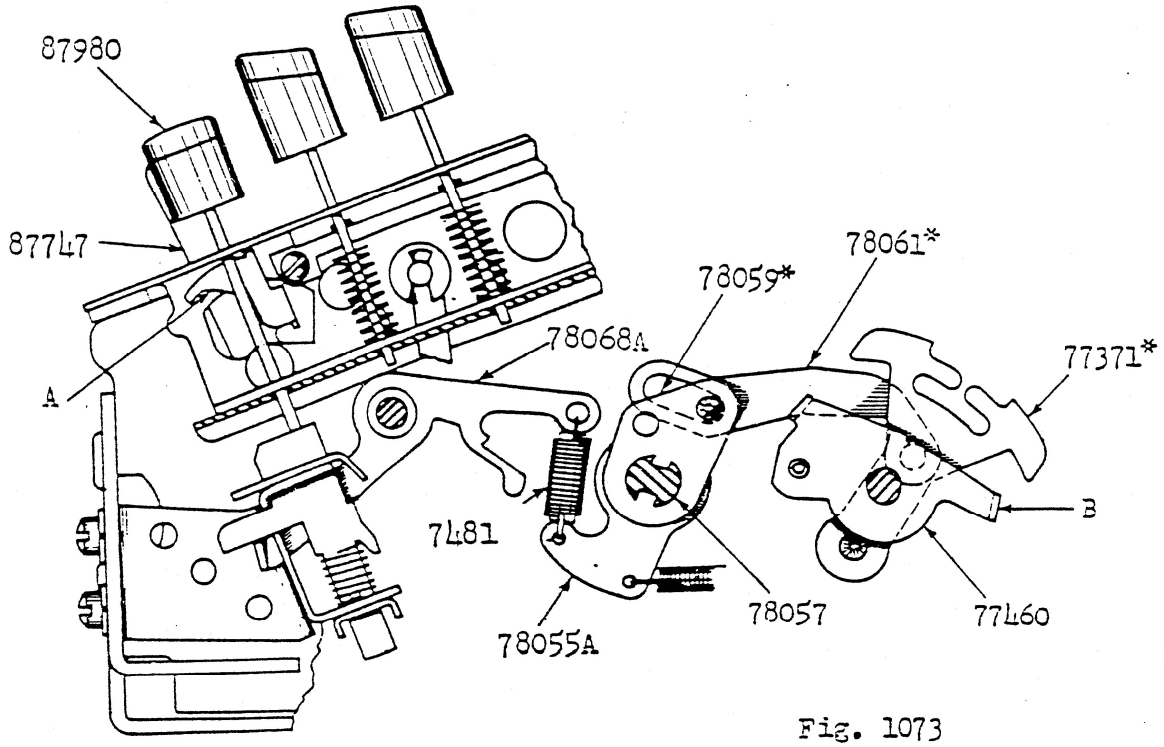

Fig. 1073

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5. If the No. 10 (or No. 8 in 8 Bank machines) Columnar Tab. Key is further depressed Tee Member 77371* (Fig. 1073) will be positioned for a right shift as explained above. Bail 78110 (Fig. 1074) will be rocked clear of the Tripper by extension "C" of 78068A. 78068A will be held by latch 78075 until released by the Tripper. Bail 78165 will also be rocked far enough to trip the Toggle and start a shift. The Carriage will continue to shift to the right until Latch 77330 is forced out of engagement with 78015 by the Shift Terminating Mechanism (paragraph 26, page 893).

6. Applying greater pressure to the No. 10 (or No. 8) Columnar Tab. Key will cause spring 7598 on 78165, which will be stopped by the bottom frame, to yield, permitting the key to move downward until the lug on the key stem forces the Lock Bar to the right releasing any latched keys.

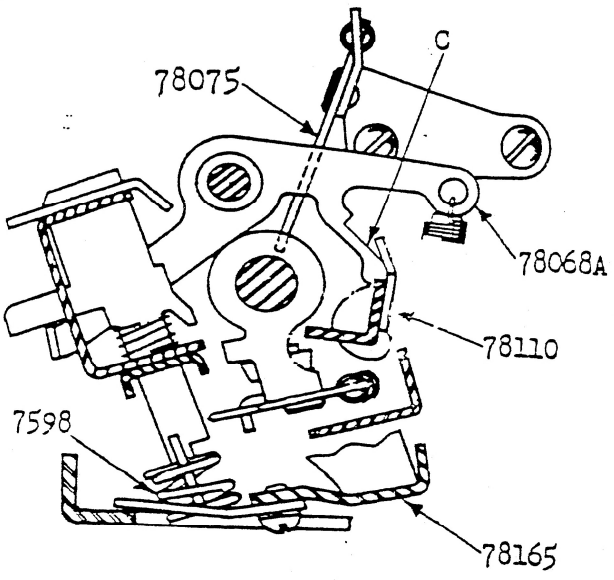

Fig. 1074

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7. When the Tab. Direction Control Lever is toward the rear of the machine the Tee Positioning Lever, 78047, (Fig. 1075) will be held in its upward position by spring 7061 on 78045 positioning 77371* forward over ear "D" of 77460* for a left carriage shift.

8. Depression of the No. 1 Columnar Tab. Key rocks the Control Lever-Right, 78065 (Fig. 1076) counter-clockwise. Extension "E" will rock Bail 78110 clear of the Tripper. 78065 will be latched in its counter-clockwise position by 78051,(similar to 78062, see paragraphs 8 and 9, page 884) until released by the Tripper. The lower end of the key will rock bail 78165 far enough to trip the Toggle and initiate a Tab. shift.

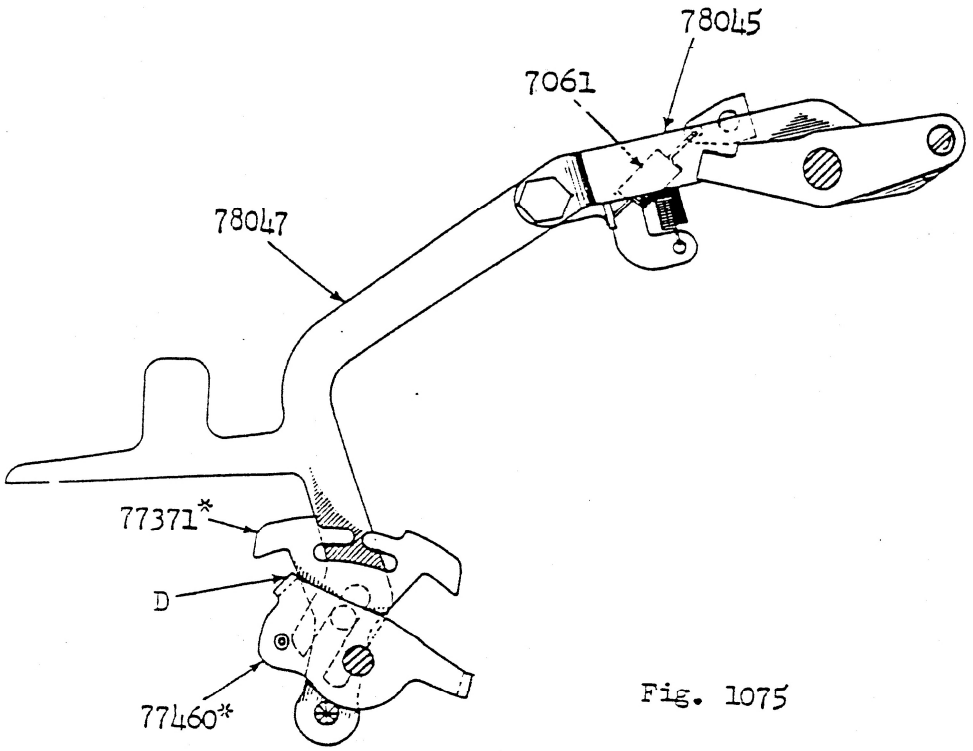

Fig. 1075

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9. When the Control Lever-Right, 78065 (Fig. 1076) is rocked counter-clockwise extension "F" of Tee Positioning Lever, 78047, which lies in a slot in 78065, is rocked upward. If the Tab. Direction Control Lever is set for a right shift, fork "G" of 78047 will position 77371* forward over ear "H" of 77461* for a left shift.

10. If the Tab. Direction Control Lever is toward the rear of the machine all Tab. shifts as obtained by depressing the No. 1 Columnar Tab. Key, or the Master Tab. Key will be to the left. However, with the Automatic Clear and Return Mechanism a right Tab. shift is required at the completion of division. When the Division Key 37110* (Fig.1077) is depressed the roller 37113* contacts the surface "J" of Positioning Lever 72625A and rocks that lever counter-clockwise about Tie Bolt 37253. The ear "K" on 72625A is lowered and as it overlies the forward end of the Control Lever 78040 that Lever is also rocked counter-clockwise, which rocks 78045 and

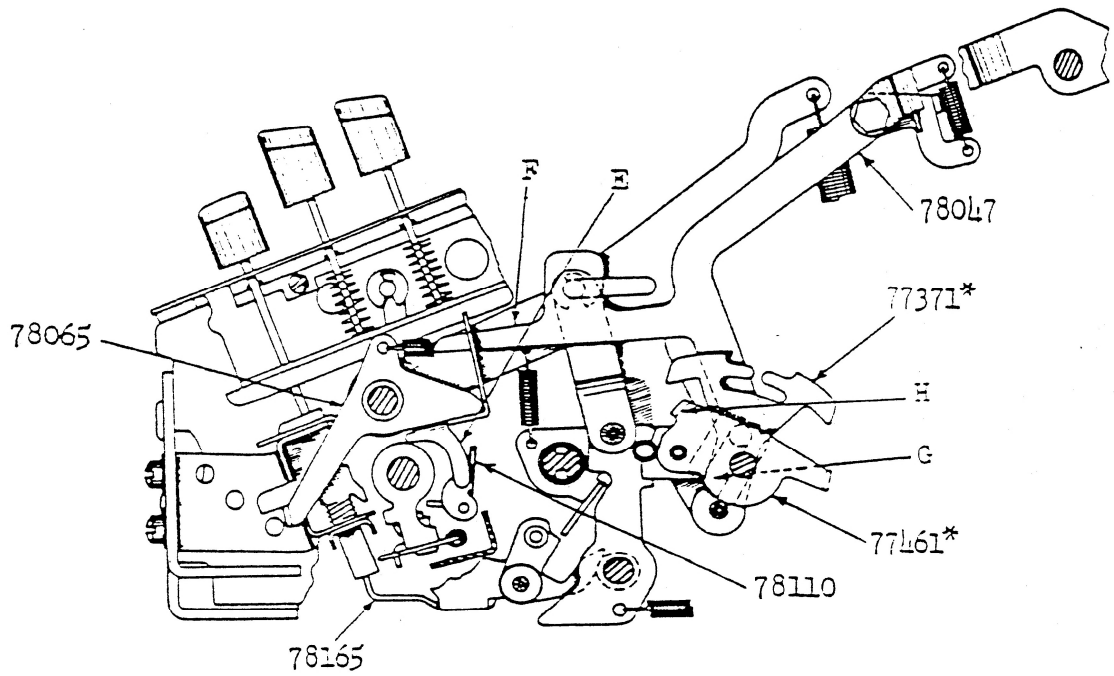

Fig. 1076